

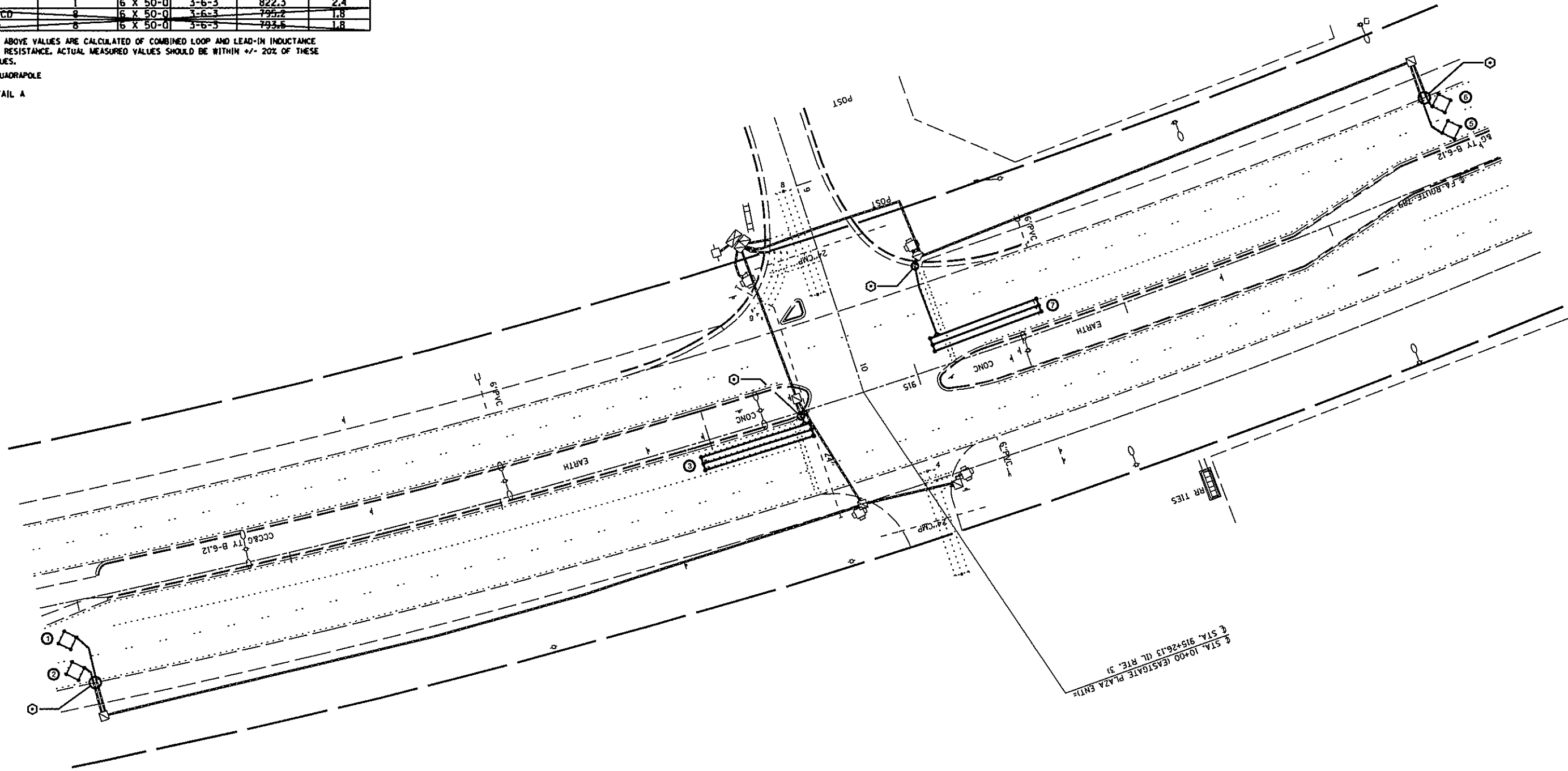
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 003 & EASTGATE PLAZA DR.

LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. SB CCO A	2	6 X 6	6	377.9	3.2
2. SB CCO B	2	6 X 6	6	374.6	3.1
3. SB LT CD	5	6 X 50-0	3-6-3	823.4	2.4
4. EB THRU CD	4	6 X 50-0	3-6-3	832.9	2.7
5. NB CCO A	6	6 X 6	6	344.0	2.4
6. NB CCO B	6	6 X 6	6	340.9	2.3
7. NB LT CD	1	6 X 50-0	3-6-3	822.3	2.4
8. WB THRU CD	8	6 X 50-0	3-6-3	795.2	1.8
9. WB RT CD	8	6 X 50-0	3-6-3	793.6	1.8

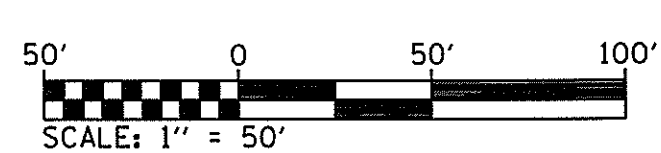
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

○ QUADRAPOLE

⊙ SEE DETAIL A



IL 003 & EASTGATE PLAZA DR.



**FAP 789/FAP 2

FILE NAME * #FILE#	USER NAME * #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN 2 OF 3		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE * #SCALE#	DRAWN -	REVISED -		SCALE: _____	SHEET NO. 3 OF 4 SHEETS	STA. _____	202RS-4, 406-IRS-1	MADISON	22	21
	PLOT DATE * #DATE#	CHECKED -	REVISED -		TO STA. _____			CONTRACT NO. 76M04			
		DATE -	REVISED -					(ILLINOIS) FED. AID PROJECT			